PTO-1590 (2-09)

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SEARCH REQUEST FORM

Examiner # (Mandatory):	Requester's Full Name:							
Art Unit Location (Bldg/Room#):	Phone (circle 305 306/308) 4621							
Serial Number:	Results Format Preferred (circle): PAPER DISK E-MAIL							
Title of Invention								
Inventors (please provide full names):								
*								
Earliest Priority Date:	_							
Keywords (include any known synonyms registry nur	mbers, explanation of initialisms):							
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etc., if known. You may include a copy of the abstract	ay have a special meaning. Give examples of relevant citations, authors, and the broadcast or most relevant claim(s).							
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	of Search Vendors (include cost where applicable)							
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Number of Databases:	Procurement Dr. Link Other Westlaw							
	Other (specify)							

67057

Everett White

1623

CM1/7A17

09/101,672

Preparation containing a Combination of 5-Methylisoxazole-4-Carboxylic acid-(4-Trifluoromethyl-Anilideand N-(4-Trifluoromethylphenyl) 2-Cyano-3-Hydroxycrotonic acid amide

Robert Bartlett and Johann Then

3/20/96

A copy of the broadest claims (claims 12, 20, 26 and 27) and the Abstract is disclosed.

=> fil reg FILE 'REGISTRY' ENTERED AT 11:34:18 ON 25 JUL 1999 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 1999 American Chemical Society (ACS)

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VAR G1=AK/CN NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT 17 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L30 45 SEA FILE=REGISTRY CSS FUL L28

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SEARCH TIME: 00.00.01

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(FILE 'REGISTRY' ENTERED AT 11:28:18 ON 25 JUL 1999)
L30
45 S L28 CSS FUL
SAV L30 WHITE101/A
L31
13 S L30 AND C12H9F3N2O2
L32
12 S L31 NOT L23
L33
0 S L30 AND C12H12F3NO2
L34
32 S L30 NOT. L31
L35
0 S L34 NOT CYANO

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L37
              0 S L14 AND L13
L38
              0 S L14 AND L32
     FILE 'HCAPLUS' ENTERED AT 11:32:11 ON 25 JUL 1999
L39
             68 S L25 AND L32
L40
              9 S L39 AND COMBIN?
              7 S L39 AND FORMUL?
L41
              1 S L39 AND SYNERG?
L42
              6 S L39 AND COMPOSITION
L43
L44
             18 S L40-L43
             19 S L24, L44
L45
                SEL HIT RN
     FILE 'REGISTRY' ENTERED AT 11:33:43 ON 25 JUL 1999
L46
              5 S E6-E11
     FILE 'REGISTRY' ENTERED AT 11:33:59 ON 25 JUL 1999
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FILE 'REGISTRY' ENTERED AT 11:34:18 ON 25 JUL 1999

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L46 ANSWER 1 OF 5 REGISTRY COPYRIGHT 1999 ACS
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RN 214782-56-6 REGISTRY

CN 2-Butenamide, 2-cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]-, (2E)-(CA INDEX NAME)

FS STEREOSEARCH

MF C12 H9 F3 N2 O2

SR

CA, CAPLUS, TOXLIT LC STN Files:

Double bond geometry as shown.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:310393

L46 ANSWER 2 OF 5 REGISTRY COPYRIGHT 1999 ACS

208401-20-1 REGISTRY RN

4-Isoxazolecarboxamide, 3-methyl-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA CN INDEX NAME)

3D CONCORD FS

MF C12 H9 F3 N2 O2

CAS Registry Services SR

LC STN Files: CA, CAPLUS, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:20604

L46 ANSWER 3 OF 5 REGISTRY COPYRIGHT 1999 ACS

RN 196191-66-9 REGISTRY

CN 4-Isoxazolecarboxamide, 5-methyl-N-[4-(trifluoromethyl)phenyl]-, mixt. with 2-cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]-2-butenamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Butenamide, 2-cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]-, mixt. contg. (9CI)

MF C12 H9 F3 N2 O2 . C12 H9 F3 N2 O2

CI MXS

SR CA

LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 108605-62-5 CMF C12 H9 F3 N2 O2

CM 2

CRN 75706-12-6 CMF C12 H9 F3 N2 O2

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:268061

L46 ANSWER 4 OF 5 REGISTRY COPYRIGHT 1999 ACS

RN 108605-62-5 REGISTRY

CN 2-Butenamide, 2-cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Cyano-3-hydroxy-N-(4-trifluoromethylphenyl)crotonamide

CN A 77-1726

CN SU 20

CN Teriflunomide

FS 3D CONCORD

DR 210165-52-9

MF C12 H9 F3 N2 O2

CI COM

SR CA

LC STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, EMBASE, MEDLINE, TOXLIT, USPATFULL

79 REFERENCES IN FILE CA (1967 TO DATE)

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

79 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:39350

REFERENCE 2: 131:29577

REFERENCE 3: 131:27612

REFERENCE 4: 131:27611 131:27610 5: REFERENCE REFERENCE 6: 131:27609 REFERENCE 7: 131:27608 REFERENCE 8: 131:13589 REFERENCE 9: 130:280811 REFERENCE 10: 130:246540 L46 ANSWER 5 OF 5 REGISTRY COPYRIGHT 1999 ACS **75706-12-6** REGISTRY RN 4-Isoxazolecarboxamide, 5-methyl-N-[4-(trifluoromethyl)phenyl]- (9CI) CN INDEX NAME) OTHER NAMES: HWA 486 CN Leflunomide CN CN SU 101 SU 101 (pharmaceutical) CN 3D CONCORD FS 210165-51-8 DR C12 H9 F3 N2 O2 MF CI COM ADISINSIGHT, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, LC STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, CSCHEM, DDFU,

DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, MSDS-OHS, PHAR, PROMT, TOXLINE, TOXLIT, USAN, USPATFULL, VETU (*File contains numerically searchable property data)

Other Sources:

WHO

229 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
229 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:29577

REFERENCE 2: 131:27618

REFERENCE 3: 131:27612

REFERENCE 4: 131:27611

REFERENCE 5: 131:13589

REFERENCE 6: 131:387

REFERENCE 7: 130:352088

REFERENCE 8: 130:346723

REFERENCE 9: 130:306209

REFERENCE 10: 130:280811

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 11:35:07 ON 25 JUL 1999 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1967 - 25 Jul 1999 VOL 131 ISS 5 FILE LAST UPDATED: 24 Jul 1999 (19990724/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d bib abs hitrn tot 145

- L45 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 1999 ACS
- AN 1999:170424 HCAPLUS
- DN 131:13589
- TI Potentiation of immunosuppressive efficacy by combining the novel leflunomide analog, HMR 279, with microemulsion cyclosporine in a rat lung transplant model
- AU Hausen, Bernard; Boeke, Katrin; Berry, Gerald J.; Gummert, Jan F.; Christians, Uwe; Morris, Randall E.
- CS Transplantation Immunology, Department of Cardiothoracic Surgery, and Department of Pathology, Stanford University, Palo Alto, CA, 94305-5407,
- SO Transplantation (1999), 67(3), 354-359 CODEN: TRPLAU; ISSN: 0041-1337
- PB Lippincott Williams & Wilkins

DT Journal

LA English

AB

Background-The novel leflunomide (LFM) analog, HMR 279, potentiates the immunosuppressive efficacy of microemulsion cyclosporine (Neoral) in rodent heart transplantation. The present study was designed to evaluate the immunosuppressive efficacy of this combination in comparison to the combination of Neoral and LFM in a stringent allogeneic rodent lung transplant model. Methods-Donor lungs from Brown Norway rats were implanted into Lewis recipients and were followed for 21 days. Postoperative monitoring included daily wt. assessment, chest radiographs, drug trough levels measured by HPLC (LFM/HMR 279) and HPLC/mass spectrometry (Neoral), and blinded histol. assessment of the transplanted lung on the day of death based on the International Society for Heart and Lung Transplantation working formulation. Untreated lung recipients served as controls (group I). Rats were assigned to the following treatment groups: II, 7.5 mg/kg/day Neoral; III, 10 mg/kg/day LFM; IV, 10 mg/kg/day HMR 279; V, 10 mg/kg/day LFM plus 7.5 mg/kg/day Neoral given simultaneously; and VI, 10 mg/kg/day HMR 279 plus 7.5 mg/kg/day Neoral given simultaneously. Drugs were given daily by oral gavage. Results-All rats except for one in the HMR 279 monotherapy group survived the follow-up period. The chest radiographs in the control, LFM, and HMR 279 monotherapy groups showed moderate to complete opacification of the left chest by postoperative day 7 (controls) and day 14 (LFM, 279). At postoperative day 21, the Neoral monotherapy and the combination groups showed no signs of opacification in the radiographs. Combination therapies of Neoral plus HMR 279 or Neoral plus LFM were most successful in preventing histol. allograft rejection. Combining Neoral and HMR 279 resulted in a significant decrease in the cyclosporine trough levels. Co-administration of LFM plus Neoral resulted in significantly higher LFM trough levels when compared to LFM monotherapy. Of all treatments studied, the combination of HMR 279 plus Neoral was tolerated best as assessed by percentage of wt. change. Conclusion-This study showed for the first time in a stringent rodent lung transplant model that combined treatment of LFM or HMR 279 plus Neoral potentiates the immunosuppressive efficacies of these drugs and successfully prevents allograft rejection.

75706-12-6, Leflunomide
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(comparison with; potentiation of immunosuppressive efficacy by combining novel leflunomide analog HMR 279 with microemulsion cyclosporine in rat lung transplant model)

IT 108605-62-5

IT

RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(potentiation of immunosuppressive efficacy by **combining** novel leflunomide analog HMR 279 with microemulsion cyclosporine in rat lung transplant model)

- L45 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 1999 ACS
- AN 1998:789148 HCAPLUS
- DN 130:20604
- TI Heteroarylcarboxamide compounds active against protein tyrosine kinase-related disorders, and preparation thereof
- IN McMahon, Gerald; Tang, Peng Cho; Shawver, Laura Kay; Hirth, Klaus Peter
- PA Sugen, Inc., USA
- SO PCT Int. Appl., 149 pp. CODEN: PIXXD2

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DТ
     Patent
LΑ
     English
FAN.CNT 2
                                         APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
                                          -----
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     WO 9852944
                      A1
                            19981126
                                          WO 1998-US10174 19980518
PΙ
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
                                           JP 1998-10368
                       A2
                            19990427
                                                            19980122
     JP 11116479
                                          AU 1998-76879
     AU 9876879
                      A1
                            19981211
                                                            19980518
PRAI US 1997-46945
                      19970519
     US 1997-47084
                      19970519
     US 1997-56623
                      19970820
     US 1997-61590
                      19971010
     WO 1998-US10174 19980518
OS
    MARPAT 130:20604
     Heteroarylcarboxamides are provided which modulate the activity of protein
AΒ
     tyrosine kinases and are expected to be useful in the treatment of
     abnormal protein tyrosine kinase activity-driven disorders. Also provided
     are methods for the treatment of inappropriate FGFR activity related
     disorders with the heteroarylcarboxamide, N-(4-trifluoromethylphenyl)-5-
     methylisoxazole-4-carboxamide, as well as the treatment of solid tumor
     cancers, esp. glioblastoma and astrocytoma, with a combination
     of a nitrosourea, preferably BCNU (carmustin), and N-(4-
     trifluoromethylphenyl)-5-methylisoxazole-4-carboxamide.
TΤ
     75706-12-6
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (heteroarylcarboxamides active against protein tyrosine kinase-related
        disorders, and prepn. thereof)
IT
     208401-20-1P
     RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (heteroarylcarboxamides active against protein tyrosine kinase-related
        disorders, prepn. thereof, and use with nitrosoureas)
IT
     108605-62-5
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (heteroarylcarboxamides active against protein tyrosine kinase-related
        disorders, prepn. thereof, and use with nitrosoureas)
L45 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 1999 ACS
     1998:648906 HCAPLUS
ΑN
DN
     130:20319
     Structural and functional comparison of agents interfering with
ΤI
     dihydroorotate, succinate and NADH oxidation of rat liver mitochondria
ΑU
     Jockel, Johannes; Wendt, Bernd; Loffler, Monika
     Institute for Physiological Chemistry, School of Medicine,
CS
     Philipps-University, Marburg, D-35033, Germany
     Biochem. Pharmacol. (1998), 56(8), 1053-1060
SO
     CODEN: BCPCA6; ISSN: 0006-2952
     Elsevier Science Inc.
PB
DT
     Journal ·
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LA English

AB

Mitochondrially bound dihydroorotate dehydrogenase (EC 1.3.99.11) catalyzes the fourth sequential step in the de novo synthesis of uridine monophosphate; this enzyme uses ubiquinone as the proximal and cytochrome oxidase as is the ultimate electron transfer system. Here, seven compds. with proven antiproliferative activity and in vitro antipyrimidine effects were investigated with isolated functional mitochondria of rat tissues in order to differentiate their anti-dihydroorotate dehydrogenase potency vs. putative effects on the respiratory chain enzymes. Ten .mu.M of brequinar sodium, the leflunomide derivs. A77-1726, [2-cyano-3-cyclopropyl-3-hydroxyenoic acid (4-trifluoromethyl)-amide], MNA 279, (2-cyano-N-(4-cyanophenyl-3-cyclopropyl-3-oxo-propanamide), MNA715 (2-cyano-3-hydroxy-N-4-(trifluoromethyl)-phenyl-6-heptanamide), HR325 (2-cyano-3-cyclopropyl-3hydroxy-N-[3'-methyl-4'-(trifluoromethyl)phenyl]-propenamide), and the diazine toltrazuril completely inhibited the dihydroorotate-induced oxygen consumption of liver mitochondria. Succinate and NADH oxidn. were found to be influenced only at elevated drug concn. (100 .mu.M), with the exception of HR325, 10 .mu.M of which caused a 70% inhibition of NADH and 50% inhibition of succinate oxidn. This was comparable to the effects of toltrazuril, which caused an approx. 75% inhibition of NADH oxidn. Ciprofloxacin was shown here to have only marginal effects on the redox activities of the inner mitochondrial membrane. This differentiation of drug effects on mitochondrial functions will contribute to a better understanding of the in vivo pharmacol. activity of these drugs, which are presently in clin. trials because of their immunosuppressive, cytostatic or anti-parasitic activity. A comparison of the influence of A77-1726, HR325, brequinar and 2,4-dinitrophenol on energetically coupled rat liver mitochondria revealed only a weak uncoupling potential of A77-1726 and brequinar. In addn., a modeling study was raised to search for common spatial arrangements of functional groups essential for binding of inhibitors to dihydroorotate dehydrogenase. From the structural comparison of different metabolites and inhibitors of pyrimidine metab., a 6-point model was obtained by conformational anal. for the drugs tested on mitochondrial functions, pharmacophoric perception and mapping. We propose our model in combination with kinetic data for a <- NA rational design of highly specific inhibitors of dihydroorotate dehydrogenase.

TT 75706-12-6, Leflunomide 108605-62-5, A77-1726

RL: BAC (Biological activity or effector, except adverse); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)

(structural and functional comparison of agents interfering with dihydroorotate, succinate and NADH oxidn. of rat liver mitochondria)

L45 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 1999 ACS

AN 1998:606894 HCAPLUS

DN 129:310393

TI Isoxazolylthioamides as potential immunosuppressants. A combinatorial chemistry approach

- AU Albert, Rainer; Knecht, Hellmut; Andersen, Elsebeth; Hungerford, Valerie; Schreier, Max H.; Papageorgiou, Christos
- CS Novartis Pharma AG, Transplantation Research, BASEL, CH-4002, Switz.
- SO Bioorg. Med. Chem. Lett. (1998), 8(16), 2203-2208 CODEN: BMCLE8; ISSN: 0960-894X
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- OS CASREACT 129:310393
- AB A library of thioamide derivs. of leflunomide and of its bioactive metabolite has been synthesized on solid phase. Thus, para-substituted

phenylacetic acids were coupled to TentaGel and were subsequently reacted with arom. isothiocyanates. Treatment of the resulting enaminothioamides with hydroxylamine led to their simultaneous cyclization and cleavage from the resin affording 23 derivs. Their in vitro profiling demonstrated that the amide-thioamide isologous substitution was detrimental of the biol. activity.

TT 75706-12-6, Leflunomide 214782-56-6
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (isoxazolylthioamides as potential immunosuppressants using combinatorial chem. approach in relation to structure)

- L45 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 1999 ACS
- AN 1998:542534 HCAPLUS
- DN 129:254610
- TI Inhibition of anti-CD3 antibody-induced mouse T cell activation by pentoxifylline in combination with rapamycin or A77 1726 (leflunomide)
- AU Richard, Martin; Hoskin, David W.
- CS Department of Microbiology and Immunology, Faculty of Medicine, Dalhousie University, Halifax, NS, B3H 4H7, Can.
- SO Int. J. Immunopharmacol. (1998), 20(4/5), 241-252 CODEN: IJIMDS; ISSN: 0192-0561
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- Pentoxifylline (PTX), rapamycin (RAP), and leflunomide and potent AB immunomodulatory drugs with differing modes of action. To develop new drug combinations for immunotherapy, we tested the effects of PTX in combination with RAP or A77 1726 (the active metabolite of leflunomide) on in vitro T cell activation in a mouse model system. T lymphocytes in spleen cell prepns. were stimulated with anti-CD3 monoclonal antibody alone, or in the presence of PTX (25-200 .mu.g/mL), RAP (0.5-5.0 ng/mL), A77 1726 (2.5-10.0 .mu.M), PTX/RAP (25-200 .mu.g/mL and 0.5-5.0 ng/mL, resp.), or PTX/A77 1726 (25-200 .mu.g/mL and 2.5-10.0.mu.M, resp.). Anti-CD3-induced T cell proliferation was inhibited in a dose-dependent fashion by the individual drugs. An additive inhibitory effect was obsd. in cultures treated with PTX/RAP or PTX/A77 1726. The effects of PTX, RAP, A77 1726, PTX/RAP, or PTX/A77 1726 (at concns. approximating the IC50 of individual drugs for inhibition of lymphoproliferation) on anti-CD3-activated killer (AK) cell induction, CD25 expression, and interleukin-2 (IL-2) synthesis in anti-CD3-activated spleen cell cultures were also detd. Alone, each drug was able to suppress AK cell induction to varying degrees. PTX plus RAP exhibited strong synergism, while the combination of PTX and A77 1726 had an additive inhibitory effect on AK cell induction. CD25 expression was only weakly inhibited by A77 1726, but the percentage of CD25-expressing cells was greatly reduced in cultures treated with PTX or RAP. The combination of PTX and RAP had an additive inhibitory effect on CD25 expression while PTX and A77 1726 together had an effect equiv. to PTX alone. IL-2 synthesis was inhibited by PTX but was unaffected by RAP or A77 1726. Treatment with PTX plus RAP led to a further redn. in IL-2 prodn. but co-treatment with PTX and A77 1726 approximated the inhibitory effect of PTX alone. We conclude that the combination of PTX and RAP is noteworthy for its potent immunomodulatory activity and may be of use in clin. situations where it is desirable to prevent T cell activation.
- IT 108605-62-5, A 77 1726 RL: BAC (Biological activity or effector, except adverse); THU

```
(Therapeutic use); BIOL (Biological study); USES (Uses)
        (A 77 1726; inhibition of anti-CD3 antibody-induced mouse T cell
        activation by pentoxifylline in combination with rapamycin or
        A77 1726 (leflunomide))
IT
     75706-12-6, Leflunomide
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (inhibition of anti-CD3 antibody-induced mouse T cell activation by
        pentoxifylline in combination with rapamycin or A77 1726
        (leflunomide))
L45 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 1999 ACS
     1998:484936 HCAPLUS
AN
     129:127164
DN
TI
     Formulation and method for treating neoplasms by inhalation
    Placke, Michael E.; Omondi, Anthony R.; Booker, Michael J.; Frye, John E.;
IN
     Shah, Praful K.; Flanagan, Douglas R., Jr.; Donovan, Maureen D.
     Battelle Memorial Institute, USA
PA
SO
     PCT Int. Appl., 94 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
FAN.CNT 1
                                         APPLICATION NO. DATE
                    KIND DATE
     PATENT NO.
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                                          _____
     _____
                    A2 19980709
A3 19990415
                                         WO 1997-US24289 19971230
PΙ
    WO 9829110
     WO 9829110
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
            KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
            NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
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             FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
                                          AU 1998-70975
                                                           19971230
                     A1 19980731
     AU 9870975
PRAI US 1996-33789
                      19961230
     WO 1997-US24289 19971230
     A formulation, method, and app. for treating neoplasms such as
AB
     cancer by administering a pharmaceutically effective amt. of highly toxic
     compn. by inhalation, wherein the compn. is a
     non-encapsulated antineoplastic drug.
     75706-12-6, SU 101 210165-52-9, SU 20 (pharmaceutical)
TT
    RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PEP (Physical, engineering or chemical process); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (formulation and method for treating neoplasms by inhalation)
    ANSWER 7 OF 19 HCAPLUS COPYRIGHT 1999 ACS
L45
     1998:410142 HCAPLUS
AN
     129:183669
DN
     Leflunomide and the malononitriloamides in xenotransplantation
TI
ΑU
     Bartlett, R. R.; Kemp, E.
     Immunopharmacology Laboratory, Wiesbaden, Germany
CS
     Xenotransplantation (2nd Ed.) (1997), 641-648. Editor(s): Cooper, David
SO
     K. C. Publisher: Springer, Berlin, Germany.
     CODEN: 66HVAC
DT
     Conference; General Review
LΑ
     English
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- white 09 / 101672 A review with 36 refs. on the use of leflunomide and the AB malononitriloamides (derivs. of A771726) in preventing acute and chronic allograft as well as xenograft rejection. Since leflunomide and malononitriloamides are rather unique for use with xenotransplantation and considering the advantage of the shorter half-lives of the malononitriloamides, these drugs used in combination with other immunosuppressants may be useful to prevent or reverse the rejection of xenografts in humans. 75706-12-6, Leflunomide 108605-62-5D, A771726, derivs. ΙT RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (leflunomide and malononitriloamides as immunosuppressants in xenotransplantation to prevent or reverse rejection) ANSWER 8 OF 19 HCAPLUS COPYRIGHT 1999 ACS 1998:154466 HCAPLUS
- L45
- AN
- DN 128:265737
- Dihydroorotate dehydrogenase inhibitors: quantitative structure-activity TΙ relationship analysis
- AU Ren, Shijun; Wu, Sharon K.; Lien, Eric J.
- CS School of Pharm., Univ. Southern California, Los Angales, CA, USA
- SO Pharm. Res. (1998), 15(2), 286-295 CODEN: PHREEB; ISSN: 0724-8741
- PB Plenum Publishing Corp.
- DT Journal
- LΑ English
- The main purpose of this study is to analyze the QSAR of 2 series of AB dihydroorotate dehydrogenase inhibitors (leflunomide and quinolinecarboxylic acid analogs), and to det. the structural requirements for optimum activity of these analogs. A new CQSAR program was used in deriving regression equations and calcg. the octanol/water partition coeff. and the molar refractivity values. The mol. modeling was performed by using the HyperChem program. Statistically significant correlations K NA were obtained using a combination of 3-4 parameters. The structural requirements for optimum activity and crit. regions for the inhibitory activity of dihydroorotate dehydrogenase were identified. QSAR anal. demonstrated that 2 series of dihydroorotate dehydrogenase inhibitors may bind to different binding sites on the enzyme. These results provide a better understanding of dihydroorotate dehydrogenase inhibitor-enzyme interactions, and may be useful for further modification and improvement of inhibitors of this important enzyme.
- IT 108605-62-5

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); BIOL (Biological study)

(QSAR anal. of dihydroorotate dehydrogenase inhibitors)

75706-12-6D, Leflunomide, metabolites, analogs IT 108605-62-5D, analogs

RL: PRP (Properties)

(QSAR anal. of dihydroorotate dehydrogenase inhibitors)

- L45 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 1999 ACS
- ΑN 1997:655394 HCAPLUS
- DN 127:311457
- Solid pharmaceutical composition comprising leflunomide ΤI
- Siefke, Verena; Mentrup, Edgar IN
- PΑ Hoechst A.-G., Germany
- SO Eur. Pat. Appl., 5 pp. CODEN: EPXXDW
- DT Patent

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German
LA
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
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                                         -----
                                       EP 1997-104344
PΙ
                     Al 19971001
                                                         19970314
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
                    A1 19980122
                                        DE 1996-19612131 19960327
    DE 19612131
                           19971002
                                         AU 1997-16513
    AU 9716513
                     A1
                                                          19970325
                     AA
                           19970927
                                         CA 1997-2201040
                                                          19970326
    CA 2201040
    JP 10007547
                     A2
                           19980113
                                         JP 1997-72937
                                                          19970326
PRAI DE 1996-19612131 19960327
    Leflunomide tablets are manufd. under essentially anhyd. conditions to
    minimize decompn. to N-(4-trifluoromethylphenyl)-2-cyano-3-
    hydroxycrotonamide (I) during storage. Thus, a mixt. of leflunomide 10.0,
     lactose 78.0, corn starch 50.0, highly disperse SiO2 0.5, crosslinked PVP
     7.5, and Mg stearate was subjected to direct tableting without wet
    granulation. After 6 mo storage at 40.degree. and relative humidity 75%,
     the tablets had a I (impurity) content of only 1.5%.
IT
     75706-12-6, Leflunomide
    RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (solid pharmaceutical compn. comprising leflunomide)
IT
    108605-62-5P
    RL: PNU (Preparation, unclassified); PREP (Preparation)
        (solid pharmaceutical compn. comprising leflunomide)
T.45
    ANSWER 10 OF 19 HCAPLUS COPYRIGHT 1999 ACS
ΑN
    1997:640582 HCAPLUS
DN
    127:268062
    Topical formulations for treatment of nail psoriasis
ΤI
     Petri, Walter
IN
    Hoechst A.-G., Germany; Petri, Walter
PA
SO
     PCT Int. Appl., 25 pp.
     CODEN: PIXXD2
DT
    Patent
LА
    German
FAN.CNT 1
                    KIND DATE
                                       APPLICATION NO. DATE
    PATENT NO.
                    ____
                                         ______
    WO 9734644 A1
                          19970925
                                        WO 1997-EP905
                                                         19970226
PΙ
        W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IS, JP, KE, KG,
            KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO,
            RU, SD, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
            SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
                                        CA 1997-2248977 19970226
    CA 2248977
                     AA 19970925
    AU 9718767
                      A1
                           19971010
                                         AU 1997-18767
                                                          19970226.
                                        EP 1997-905085
                                                          19970226
    EP 888138
                      A1
                           19990107
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
            SI, LT, LV, FI
PRAI DE 1996-19610482 19960316
    WO 1997-EP905
                     19970226
    Topical formulations suitable for treatment of nail psoriasis
     contain an active agent against psoriasis, .qtoreq.1 spreading solvent,
     .qtoreq.1 readily volatile solvent, a film-forming agent, and optionally a
    permeation enhancer. The film-forming agent prevents removal of the
     active agent during bathing. Thus, a topical prepn. contained leflunomide
     0.1, iso-Pr palmitate 2.0, iso-PrOH 33.0, EtOAc 33.0, and Gantrez ES435
     31.9 g.
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75706-12-6, Leflunomide 108605-62-5,
IT
     2-Cyano-3-hydroxy-N-(4-trifluoromethylphenyl)crotonamide
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (topical formulations for treatment of nail psoriasis)
L45 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 1999 ACS
     1997:640540 HCAPLUS
AN
DN
     127:268061
     Preparation containing a combination of 5-methylisoxazole-4-carboxylic
ΤI
     acid 4-trifluoromethylanilide and N-(4-trifluoromethylphenyl)-2-cyano-3-
     hydroxycrotonamide
     Bartlett, Robert; Then, Johann
TN
PA
     Hoechst A.-G., Germany; Bartlett, Robert; Then, Johann
     PCT Int. Appl., 20 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     German
LA
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                         APPLICATION NO.
                                                           DATE
     _____
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                                          _____
                                     WO 1997-EP1167 19970307
                           19970925
ΡI
     WO 9734600
                     A1
        W: AU, BG, BR, BY, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, RO, RU,
             SG, SI, TR, UA, US
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                         DE 1996-19610955 19960320
     DE 19610955
                      A1
                           19970925
                                          CA 1997-2249348 19970307
     CA 2249348
                      AΑ
                           19970925
                                          AU 1997-19261
                                                           19970307
     AU 9719261
                      A1
                           19971010
     AU 705692
                      B2
                           19990527
                                          EP 1997-907081
                                                           19970307
     EP 896537
                      A1
                           19990217
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
             SI, FI, RO
                                          CN 1997-193041
                                                           19970307
     CN 1213302
                           19990407
                      Α
                                          NO 1998-4343
                                                           19980918
     NO 9804343
                      Α
                           19980918
PRAI DE 1996-19610955 19960320
     WO 1997-EP1167 19970307
    A solid prepn. contg. 5-methylisoxazole-4-carboxylic acid
     4-trifluoromethylanilide (I) and N-(4-trifluoromethylphenyl)-2-cyano-3-
     hydroxycrotonamide (II) shows synergistic activity as an
     immunosuppressant. Thus, a combination of I (9.7 mg/kg) and II (0.3
     mg/kg), administered orally to rats once a day for 12 days as a suspension
     in 1% aq. CM-cellulose, was effective against adjuvant-induced arthritis.
IT
     196191-66-9
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (pharmaceutical combination of methylisoxazolecarboxylic acid
        trifluoromethylanilide and (trifluoromethylphenyl)cyanohydroxycrotonami
    ANSWER 12 OF 19 HCAPLUS COPYRIGHT 1999 ACS
L45
     1997:204396 HCAPLUS
AN
DN
     126:268519
TΙ
     Pharmaceutical formulations for lipophilic compounds comprising.
     ethanol and a surfactant
     Schwartz, Donna P.; Shawver, Laura K.
IN
PA
     Sugen, Inc., USA
     U.S., 7 pp. Cont.-in-part of U.S. Ser.No. 370,574.
SO
     CODEN: USXXAM
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DT

Patent

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I.A
     English
FAN.CNT 3
     PATENT NO.
                      KIND DATE
                                          APPLICATION NO.
                                                            DATE
                           -----
                     ____
                      Α
                            19970311
                                          US 1995-429206
                                                            19950426
PΙ
     US 5610173
     US 5700823
                      Α
                            19971223
                                           US 1994-179570
                                                            19940107
                                           US 1995-457047
     US 5700822
                      Α
                            19971223
                                                            19950601
     WO 9633745
                                           WO 1996-US5500
                                                            19960417
                      A1
                            19961031
         W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
             ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,
             LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
             IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN
                                          CA 1996-2215327 19960417
     CA 2215327
                            19961031
                       AA
     AU 9655604
                       A1
                            19961118
                                           AU 1996-55604
                                                            19960417
     AU 700423
                       B2
                            19990107
     EP 830145
                                          EP 1996-912954
                                                            19960417
                       A1
                            19980325
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         R:
             IE, FI
                            19980520
                                           CN 1996-193486
                                                            19960417
     CN 1182371
                       Α
     JP 10511683
                       T2
                            19981110
                                           JP 1996-532614
                                                            19960417
                      A
                            19980721
                                          US 1997-813377
                                                            19970306
     US 5783592
                            19971022
                                          NO 1997-4868
                                                            19971022
     NO 9704868
                      Α
PRAI US 1994-179570
                      19940107
                      19950106
     US 1995-370574
     US 1995-429206
                      19950426
     WO 1996-US5500
                      19960417
     Pharmaceutical formulations contg. a lipophilic compd.
AB
     solubilized in ethanol and a surfactant are disclosed.
                                                             The solubilized
     compd. can then be further dissolved in a pharmaceutically acceptable aq.
     soln. to form a pharmaceutical formulation suitable for patient
     administration. Preferred lipophilic compds. are 5-methylisoxazole-4-
     carboxylic acid-(4-trifluoromethyl)-anilide and N-(4-
     triflouromethylphenyl)-2-cyano-3-hydroxycrotonamide. The soly. of
     leflunomide in a soln. of 66% Polysorbate 80 and 33% ethanol was 50 mg/mL.
     75706-12-6, Leflunomide 108605-62-5
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (pharmaceutical formulations for lipophilic compds.
        comprising ethanol and surfactant)
     ANSWER 13 OF 19 HCAPLUS COPYRIGHT 1999 ACS
L45
AN
     1997:25531 HCAPLUS
DN
     126:84259
     Single- and multiple-dose pharmacokinetics and pharmacodynamics of
ΤI
     leflunomide's active metabolite A77 1726 in normal Lewis rats
     Silva, H. T.; Shorthouse, R.; Morris, R. E.
ΑU
     School Medicine, Stanford University, Stanford, CA, 94305-5247, USA
CS
     Transplant. Proc. (1996), 28(6), 3092-3094
SO
     CODEN: TRPPA8; ISSN: 0041-1345
PΒ
     Appleton & Lange
DT
     Journal
LΑ
     English
     In rats, 24 h after the administration of a single dose of 5 or 10 mg/kg
AB
     of leflunomide, A77 1726 blood concns. were 5.2 and 8.3 mg/L, which
     resulted in 92.4 and 84.3% inhibition of [3H]thymidine incorporation
     (measure of lymphocyte proliferation), resp. On the other hand, in the
     studies performed after the administration of 14 doses of leflunomide,
     trough A77 1726 blood concns. (C24) were 0.7 and 1.0 mg/L, causing 39.0%
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white - 09 / 101672 (5 mg/kg) and 20.0% inhibition of [3H]thymidine incorporation. The changes obsd. in kinetic parameters after the administration of multiple doses of leflunomide in the same way A77 1726 blood concns. and its effect on [3H]thymidine incorporation, clearly demonstrating the correlation between A77 1726 pharmacokinetics and pharmacodynamics. Further studies are required to detn. whether the combined pharmacokinetic and pharmacodynamic profiles are correlated with inhibition of the immune system. 108605-62-5, A771726 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process) (single- and multiple-dose pharmacokinetics and pharmacodynamics of leflunomide's active metabolite A77 1726 in normal Lewis rats in relation to lymphocyte proliferation inhibition and immunosuppression) 75706-12-6, Leflunomide RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (single- and multiple-dose pharmacokinetics and pharmacodynamics of leflunomide's active metabolite A77 1726 in normal Lewis rats in relation to lymphocyte proliferation inhibition and immunosuppression) L45 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 1999 ACS 1996:756627 HCAPLUS 126:22905 Injectable formulations for lipophilic compounds Schwartz, Donna Pruess; Shawver, Laura Kay Sugen, Inc., USA; Schwartz, Donna Pruess; Shawver, Laura Kay PCT Int. Appl., 25 pp. CODEN: PIXXD2 Patent

DT

LΑ English

FAN.CNT 3

TT

IT

ΑN

DN

ΤI

IN

PA

SO

APPLICATION NO. DATE PATENT NO. KIND DATE ______ _____ ___ -----WO 1996-US5500 19960417 A1 19961031 PΙ WO 9633745 W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN US 5610173 A 19970311 US 1995-429206 19950426 AU 1996-55604 19960417 AU 9655604 Α1 19961118 AU 700423 B2 19990107 EP 1996-912954 19960417 EP 830145 Α1 19980325 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 1996-532614 T2 19981110 19960417 JP 10511683 NO 1997-4868 19971022 NO 9704868 A 19971022 19950426 PRAI US 1995-429206 19940107 US 1994-179570 US 1995-370574 19950106 WO 1996-US5500 19960417

AB The present invention features pharmaceutical formulations contg. a lipophilic compd., such as 5-methylisoxazole-4-carboxylic acid-(4-trifluoromethyl)-anilide (I) and N-(4-trifluoromethylphenyl)-2cyano-3-hydroxycrotonamide. The lipophilic compd. is solubilized in a

soln. contg. alc. (i.e. ethanol) and a surfactant. The solubilized compd. can be further dissolved in a pharmaceutically acceptable aq. soln., to form a formulation suitable for administration. The formulation is preferably used for parenteral administration. was dissolved in a mixt. contg. Polysorbate 80 66 and ethanol 33 %, to a concn. of 50 mg/mL and its max. diln. rate with 0.9 % NaCl soln. was .qtoreq.1:100.

75706-12-6, Leflunomide 108605-62-5 IT

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (injectable formulations for lipophilic compds. for treatment of hyperproliferative cell disorder)

- ANSWER 15 OF 19 HCAPLUS COPYRIGHT 1999 ACS L45
- AN 1996:425315 HCAPLUS
- DN 125:67757
- Preventive and remedy for type I allergic diseases ΤI
- IN Amano, Yukio; Mizushima, Yuko; Ogata, Kenji
- Hoechst Japan Limited, Japan PA
- PCT Int. Appl., 25 pp. SO
- CODEN: PIXXD2 DT Patent
- LΑ Japanese

FAN.	CNT	1
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I.m.	PATENT NO.	KIND DATE	APPLICATION NO.	DATE				
PI	WO 9611682	A1 19960425	WO 1995-JP2027	19951004				
	W: AU, CA,	FI, HU, JP, KR, MX,	NO, NZ, US					
	RW: AT, BE,	CH, DE, DK, ES, FR,	GB, GR, IE, IT, LU,	NL, PT, SE				
		AA 19960425						
	AU 9536186	A1 19960506	AU 1995-36186	19951004				
	AU 695907	B2 19980827						
	EP 787491	A1 19970806	EP 1995-933609	19951004				
	R: AT, BE,	CH, DE, DK, ES, FR,	GB, GR, IE, IT, LI,	LU, NL, PT, SE				
	ни 77135	A2 19980302	ни 1997-1910					
	ZA 9508708	A 19960514	ZA 1995-8708	19951016				
	FI 9701584	A 19970415	FI 1997-1584	19970415				
	NO 9701743	A 19970416	NO 1997-1743	19970416				
	US 5814649	A 19980929	US 1997-817241	19970606				
PRAI	JP 1994-250293	19941017						
	WO 1995-JP2027	19951004						
os	MARPAT 125:67757	7						
O.T.								

GΙ

A compn. for preventing or treating type I allergic diseases comprises as the active ingredient an anilide compd. represented by general formula (I), a stereoisomer thereof, or a physiol. acceptable salt thereof, wherein R1 represents trifluoromethyl, halogeno or cyano; R2 represents hydrogen or linear or branched C1-C4 alkyl; and R3represents a group represented by general formula (II) or (III), wherein R4 represents linear or branched C1-C4 alkyl, linear or

branched C2-C6 alkenyl, linear or branched C2-C6 alkynyl, or C3-C7 cycloalkyl. The compn. can radically prevent or treat type I allergic diseases by inhibiting the prodn. of IgE as a direct cause of these diseases.

IT 75706-12-6 108605-62-5

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preventive and remedy for type I allergic diseases)

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L45 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 1999 ACS
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AN 1996:188953 HCAPLUS

DN 124:220512

Use of leflunomide to control and reverse chronic allograft rejection and ΤI to prevent or control xenograft rejection

IN Williams, James W.

PA USA

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DTPatent

English LA

FAN.	CNT	1																
	PATENT NO.			KI	ND	DATE			A	PPLI	CATI	ON N	0.	DATE				
ΡI	WO 9601111			A.	A1 19960118				WO 1995-US8246 19950630									
		W:	AM,	AU,	BB,	BG,	BR,	BY,	CA,	CN,	CZ,	EE,	FI,	GE,	ΗU,	JP,	ΚE,	KG,
			ΚP,	KR,	ΚZ,	LK,	LR,	LT,	LU,	LV,	MD,	MG,	MN,	MW,	MX,	NO,	ΝZ,	PL,
			RO,	RU,	SD,	SI,	sĸ,	ТJ,	TT,	UA,	UZ,	VN						
		RW:	ΚE,	MW,	SD,	SZ,	ŪĠ,	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,
			LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	\mathtt{ML} ,	MR,	NE,
			SN,	TD,	ΤG													
	US	S 5624946		Α	A 19970429				US 1994-270908					19940705				
	ΑU	บ 9529541			A.	1	19960125			AU 1995-29541					19950630			
	US	5688	824		A 19971118				US 1996-598149				9	19960207				
PRAI	AI US 1994-270908 1			19	9407	05												
					10	0 - 0 -	20											

WO 1995-US8246 19950630

Methods are disclosed for controlling or reversing chronic rejection of AB allografts in a transplantation patient by administering leflunomide product alone, or in combination with one or more immunosuppressive agents selected from the group consisting of cyclosporine A, FK506, rapamycin and corticosteroids. Also disclosed are methods of preventing or controlling acute and chronic rejection of xenografts in a transplantation patient by administering leflunomide product alone, or in combination with one or more immunosuppressive agents selected from the group consisting of cyclosporine A, FK506, rapamycin and corticosteroids. The effect of e.g. leflunomide alone or with cyclosporine A on chronic rejection of rat cardiac allografts and on rejection od concordant hamster to rat cardiac xenografts is described.

IT **75706-12-6**, Leflunomide

IT

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (leflunomide or A771726, alone or in immunosuppressant combination, to control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

108605-62-5, A771726 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (leflunomide or A771726, alone or in immunosuppressant combination, to control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

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L45 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 1999 ACS
AN
    1995:580830 HCAPLUS
DN
    122:322518
    Pharmaceutical composition for parenteral, enteral and dermal
ΤI
    administration of essentially insoluble drugs
    Reul, Bernhard; Petri, Walter; Winkler, Irvin
IN
    Hoechst A.-G., Germany
PA
    Eur. Pat. Appl., 11 pp.
so
    CODEN: EPXXDW
DT
    Patent
T.A
    German
FAN.CNT 1
                                      APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
    _____
                                       _____
                   A2 19950426
A3 19960731
    EP 649660
                                      EP 1994-116552 19941020
PΙ
    EP 649660
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
    DE 4336434 A1 19950427 DE 1993-4336434 19931026
                                       CA 1994-2134293 19941025
    CA 2134293
                    AA 19950427
                    A2
                          19950725
                                       JP 1994-259928
                                                        19941025
    JP 07187995
PRAI DE 1993-4336434 19931026
    The title compn. contains a drug which is essentially insol. in
    water and lipophilic media and .gtoreq.1 physiol. acceptable
    amphosurfactant which is sol. or forms micellar-colloidal solns. in water,
    dissolved in an anhyd. water-miscible solvent. This soln. is mixed with
    water to form a metastable micellar-colloidal dispersion suitable for
    enteral or parenteral administration. Thus, a dispersion conc. contg.
    95.7% HBY 793 5.73, epicholine 75 69.50, and glycofurol 75 480.77 was
    mixed with water 5000.00 mg to form a soln.
    75706-12-6, Leflunomide 108605-62-5,
IT
    2-Cyano-3-hydroxy-N-(4-trifluoromethylphenyl)crotonamide
    RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (pharmaceutical compn. for parenteral, enteral and dermal
       administration of essentially insol. drugs)
L45 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 1999 ACS
    1994:672170 HCAPLUS
AN
DN
    121:272170
ΤI
    Fluoroisoxazolecarboxamide and fluorocrotonamide derivatives for treatment
    of skin disorders
    Kurtz, Ellen Smith; Weithmann, Klaus Ulrich; Bartlett, Robert Ryder
IN
PA
    Hoechst A.-G., Germany
SO
    Eur. Pat. Appl., 13 pp.
    CODEN: EPXXDW
DT
    Patent
T.A
    English
FAN.CNT 2
    PATENT NO.
                   KIND DATE
                                       APPLICATION NO. DATE
    ______
                                        -----
                    A1 19941005
    EP 617959
                                       EP 1994-104678 19940324
PT
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
                                       AU 1994-59157
                                                        19940329
    AU 9459157 A1 19941006
    AU 670491
                    B2 19960718
                    Al 19981227
                                        IL 1994-109151
                                                        19940329
    IL 109151
                    AA 19941001
                                       CA 1994-2120319 19940330
    CA 2120319
                   Ä 19941116
A2 19941129
                                       ZA 1994-2257
                                                        19940330
    ZA 9402257
    JP 06329538 ·
                                       JP 1994-60374
                                                        19940330
                    A2 19951030
    HU 70757
                                       HU 1994-908
                                                        19940330
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HU 216194
                           19990528
                      В
                     19930331
PRAI US 1993-41223
    MARPAT 121:272170
AB
     The title compns. are useful for treatment of skin disorders.
     Thus, a soln. of N-(4-trifluoromethylphenyl)-5-methylisoxazole-4-
    carboxamide was heated with a soln. of NaOH, followed by acidification
    with HCl to obtain N-(4-trifluoromethylphenyl)-2-cyano-3-
    hydroxycrotonamide (I). The IC50 of I against cultured human epidermal
     keratinocyte was 15.5 .mu.M.
IT
     75706-12-6P 108605-62-5P
     RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
    preparation); BIOL (Biological study); PREP (Preparation)
        (fluoroisoxazolecarboxamide and fluorocrotonamide derivs. for treatment
        of skin disorders)
    ANSWER 19 OF 19 HCAPLUS COPYRIGHT 1999 ACS
    1991:415631 HCAPLUS
AN
DN
     115:15631
     Pharmaceutical compositions containing 5-methyl-isoxazole-4-
TΙ
    carboxylic acid anilides and 2-hydroxyethylidene cyanoacetic acid anilides
     for the treatment of ocular diseases with immune ethiology
    Robertson, Stella M.; Lang, Laura Smith
IN
    Alcon Laboratories, Inc., USA
PΑ
    Eur. Pat. Appl., 10 pp.
SO
    CODEN: EPXXDW
DT
    Patent
    English
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
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                     ----
                                          _____
                                                           _____
                      A2
                           19910220
                                          EP 1990-115691
                                                           19900816
PΙ
    EP 413329
    EP 413329
                      А3
                           19920415
                      В1
                           19970205
    EP 413329
        R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE
                      A5
                           19920109
                                          DD 1990-343461
                                                           19900815
    DD 297328
                      A2
                           19910416
                                          JP 1990-215129
                                                           19900816
    JP 03090024
    AT 148628
                      E
                           19970215
                                          AT 1990-115691
                                                           19900816
                      T3
                           19970601
                                          ES 1990-115691
                                                           19900816
    ES 2099700
    CA 2023560
                      AA
                           19910219
                                          CA 1990-2023560
                                                           19900817
                      A1
                           19910221
                                          AU 1990-61104
                                                           19900817
    AU 9061104
                      B2
                           19930128
    AU 633346
    ZA 9006544
                      Α
                           19910626
                                          ZA 1990-6544
                                                           19900817
    HU 59600
                      A2
                           19920629
                                          HU 1990-5064
                                                           19900817
    HU 215959
                      В
                           19990329
                                          IL 1990-95412
    IL 95412
                      A1
                           19960131
                                                           19900817
                                          US 1994-317276
    US 5583150
                      Α
                           19961210
                                                           19941004
    US 5677335
                      Α
                           19971014
                                          US 1996-674368
                                                           19960702
PRAI US 1989-395860
                     19890818
    US 1990-569671
                     19900817
    US 1992-835243
                     19920212
                     19941004
    US 1994-317276
```

os

GΙ

MARPAT 115:15631

AB The title compns. contain I [R1-R3 = (un)halo-substituted C1-3 alkyl, (un)halo-substituted C1-3 alkoxy, (un)halo-substituted C1-3 alkylthio, halo, nitro, cyano, etc.], a metabolite of I which is II [R1-R3 = halo, (un)halo-substituted C1-4 alkyl, (un)halo-substituted C1-3 alkoxy, (un)halo-substituted C1-3 alkylthio, etc.; M = H, alkali metal, ammonium], or III (R = 4-C1, 3-Br, 4-NO2, etc.). Aq. suspension and ointment formulations contg. leflunomide are given.

IT 75706-12-6 108605-62-5

RL: BIOL (Biological study)
 (ophthalmic pharmaceutical of, for treatment of ocular disease with
 immune etiol.)

=> d his 147-

(FILE 'REGISTRY' ENTERED AT 11:33:59 ON 25 JUL 1999)

FILE 'REGISTRY' ENTERED AT 11:34:18 ON 25 JUL 1999

FILE 'HCAPLUS' ENTERED AT 11:35:07 ON 25 JUL 1999

FILE 'USPATFULL' ENTERED AT 11:35:30 ON 25 JUL 1999

L47 0 S L23

L48 15 S L14 AND L32

L49 15 S L48 AND (COMPOSITION OR COMBIN? OR FORMUL? OR SYNERG?)/BI,AB

=> fil uspat

FILE 'USPATFULL' ENTERED AT 11:36:35 ON 25 JUL 1999
CA INDEXING COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 13 Jul 1999 (19990713/PD)

FILE LAST UPDATED: 14 Jul 1999 (19990714/ED)

HIGHEST PATENT NUMBER: US5924128

CA INDEXING IS CURRENT THROUGH 14 Jul 1999 (19990714/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 13 Jul 1999 (19990713/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: May 1998

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 1998.

- >>> Page images are available for patents from 1/1/96. Current <<<
- >>> week patent text is typically loaded by Thursday morning and <<<
- >>> page images are available for display by the end of the day. <<<
- >>> Image data for the /FA field are available the following week. <<<

>>> Complete CA file indexing for chemical patents (or equivalents) <<<

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>>> is included in file records. A thesaurus is available for the
>>> USPTO Manual of Classifications in the /NCL, /INCL, and /RPCL
                                                                     <<<
>>> fields. This thesaurus includes catchword terms from the
                                                                     <<<
>>> USPTO/MOC subject headings and subheadings. Thesauri are also
                                                                    <<<
>>> available for the WIPO International Patent Classification
                                                                     <<<
>>> (IPC) Manuals, editions 1-6, in the /IC1, /IC2, /IC3, /IC4,
                                                                    <<<
>>> /IC5, and /IC (/IC6) fields, respectively. The thesauri in
                                                                    <<<
>>> the /IC5 and /IC fields include the corresponding catchword
                                                                    <<<
>>> terms from the IPC subject headings and subheadings.
                                                                    <<<
This file contains CAS Registry Numbers for easy and accurate
substance identification.
=> d 149 bib abs hitrn tot
    ANSWER 1 OF 15 USPATFULL
L49
       1998:119162 USPATFULL
AN
ΤI
       Preventive and remedy for type 1 allergic diseases
TN
       Amano, Yukio, Hidaka, Japan
       Mizushima, Yuko, Tokyo, Japan
       Ogata, Kenji, Otawara, Japan
       Hoechst Pharmaceuticals & Chemicals K.K., Tokyo, Japan (non-U.S.
PA
       corporation)
ΡI
       US 5814649
                  19980929
       WO 9611682 19960425
       US 1997-817241 19970606 (8)
ΑI
       WO 1995-JP2027 19951004
              19970606 PCT 371 date
              19970606 PCT 102(e) date
PRAI
       JP 1994-250293 19941017
       Utility
DT
       Primary Examiner: Criares, Theodore J.
EXNAM
       Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
LREP
       Number of Claims: 8
CLMN
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 504
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       A pharmaceutical composition for prophylaxis or treatment of
AB
       Type I allergic diseases which comprises as an active ingredient an
       anilide compound represented by the general formula (I)
       ##STR1## [wherein R.sub.1 is a trifluoromethyl group, a halogen atom or
       a cyano group, R.sub.2 is a hydrogen atom or a straight or branched
       C.sub.1 -C.sub.4 alkyl group and R.sub.3 is a group of the
     formula (II) or (III) ##STR2## (wherein R.sub.4 is a straight or
       branched C.sub.1 -C.sub.4 alkyl group, a straight or branched C.sub.2
       -C.sub.6 alkenyl group, a straight or branched C.sub.2 -C.sub.6 alkynyl
       group or a C.sub.2 -C.sub.6 cycloalkyl group) or a stereoisomer thereof
       or a physiologically acceptable salt thereof.
       The present composition remarkably inhibits the production of
       IgE, which is the direct cause of Type I allergic diseases, and it can
       radically prevent or cure Type I. allergic diseases.
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(preventive and remedy for type I allergic diseases)

75706-12-6 108605-62-5

IT

```
L49
    ANSWER 2 OF 15 USPATFULL
AN
       1998:28101 USPATFULL
       Pharmaceuticals for the treatment of rejection reactions in organ
TI
       transplantations
       Bartlett, Robert Ryder, Darmstadt, Germany, Federal Republic of
IN
       Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic
PA
       of (non-U.S. corporation)
       US 5728721 19980317
PΙ
ΑI
       US 1992-932577 19920820 (7)
       DE 1991-4127737 19910822
PRAI
       Utility
DT
      Primary Examiner: Cintins, Marianne M.; Assistant Examiner: Moezie, M.
EXNAM
       Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
LREP
CLMN
       Number of Claims: 13
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 310
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The use of compound 1 and/or 2 of the formulae ##STR1## and of
       physiologically tolerable salts of compound 2 for the treatment of
       rejection reactions of the organ recipient to the transplanted organ is
       described.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     75706-12-6P 108605-62-5P
        (prepn. of, as immunosuppressant for organ transplant rejection
        treatment)
L49 ANSWER 3 OF 15 USPATFULL
AN
       97:107110 USPATFULL
       Use of leflunomide to prevent or control xenograft rejection
ΤI
       Williams, James, 655 Superior, Oak Park, IL, United States 60302
IN
       US 5688824 19971118
PΙ
       US 1996-598149 19960207 (8)
AΤ
       Division of Ser. No. US 1994-270908, filed on 5 Jul 1994, now patented,
RLI
       Pat. No. US 5624946
DT
       Utility
       Primary Examiner: Criares, Theodore J.
EXNAM
LREP
       Marshall, O'Toole, Gerstein, Murray & Borun
       Number of Claims: 12
CLMN
ECL
       Exemplary Claim: 1
DRWN
       3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 1369
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The present invention relates to methods of controlling or reversing
       chronic rejection of allografts in a transplantation patient by
       administering leflunomide product alone, or in combination
       with one or more immunosuppressive agents selected from the group
       consisting of Cyclosporine A, FK506, rapamycin and corticosteroids. The
       invention also relates to methods of preventing or controlling acute and
       chronic rejection of xenografts in a transplantation patient by
       administering leflunomide product alone, or in combination
       with one or more immunosuppressive agents selected from the group
       consisting of Cyclosporine A, FK506, rapamycin and corticosteroids.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

(leflunomide or A771726, alone or in immunosuppressant combination, to

75706-12-6, Leflunomide

control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

IT 108605-62-5, A771726

(leflunomide or A771726, alone or in immunosuppressant combination, to control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

L49 ANSWER 4 OF 15 USPATFULL

AN 97:96900 USPATFULL

TI Medicaments to combat autoimmune diseases

IN Bartlett, Robert R., Darmstadt, Germany, Federal Republic of Schleyerbach, Rudolf, Hofheim am Taunus, Germany, Federal Republic of Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal Republic of

PA Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation)

PI US 5679709 19971021

AI US 1995-478847 19950607 (8)

Pat. No. US 5459163 which is a division of Ser. No. US 1992-870327, filed on 17 Apr 1992, now patented, Pat. No. US 5268382 which is a continuation of Ser. No. US 1990-575603, filed on 31 Aug 1990, now abandoned which is a division of Ser. No. US 1986-911328, filed on 25 Sep 1986, now patented, Pat. No. US 4965276

PRAI DE 1985-3534440 19850927

DT Utility

EXNAM Primary Examiner: Criares, Theodore J.

LREP Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

CLMN Number of Claims: 8 ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 384

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A pharmaceutical composition for use in the treatment of chronic Graft-versus-host diseases as well as autoimmune diseases, in particular for the treatment of systemic lupus erythematosus containing as an active ingredient at least one compound of the formula 1 or 2 ##STR1## the latter being present per se or in the form of a physiologically tolerable salt.

The invention also relates to a dosage unit form of said pharmaceutical composition and a method of treating chronic Graft-versus host diseases as well as autoimmune diseases, in particular systemic lupus erythematosus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

TT 75706-12-6 108605-62-5 108605-62-5D, salts (graft-vs.-host and autoimmune diseases treatment with)

L49 ANSWER 5 OF 15 USPATFULL

AN 97:94267 USPATFULL

TI 5-methyl-isoxazole-4-carboxylic acid anilides and 2-hydroxyethylidenecyano acetic acid anilides for the treatment of ocular disease

IN Robertson, Stella M., Arlington, TX, United States Lang, Laura Smith, Bedford, TX, United States

PA Alcon Laboratories, Inc., Fort Worth, TX, United States (U.S. corporation)

PI US 5677335 19971014

AI US 1996-674368 19960702 (8)

Division of Ser. No. US 1994-317276, filed on 4 Oct 1994, now patented, RLI Pat. No. US 5583150 which is a continuation of Ser. No. US 1992-835243, filed on 12 Feb 1992, now abandoned which is a continuation of Ser. No. US 1990-569671, filed on 17 Aug 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-395860, filed on 18 Aug 1989, now abandoned Utility DT EXNAM Primary Examiner: Fay, Zohreh Yeager, Sally LREP Number of Claims: 8 CLMN Exemplary Claim: 1 ECL DRWN No Drawings LN.CNT 278 CAS INDEXING IS AVAILABLE FOR THIS PATENT. The use of 5-methyl-isoxazole-4-carboxylic acid anilides and AB 2-hydroxyethylidene-cyano acetic acid anilides for treating ocular diseases with immune etiology is disclosed. CAS INDEXING IS AVAILABLE FOR THIS PATENT. 75706-12-6 108605-62-5 (ophthalmic pharmaceutical of, for treatment of ocular disease with immune etiol.) L49 ANSWER 6 OF 15 USPATFULL 97:36206 USPATFULL AN Use of leflunomide to control and reverse chronic allograft rejection ΤI Williams, James, 655 Superior, Oak Park, IL, United States 60302 IN US 5624946 19970429 ΡI US 1994-270908 19940705 (8) AΤ DT Utility Primary Examiner: Criares, Theodore J. EXNAM Marshall, O'Toole, Gerstein, Murray & Borun LREP Number of Claims: 11 CLMN Exemplary Claim: 1 ECL 3 Drawing Figure(s); 3 Drawing Page(s) DRWN LN.CNT 1354 CAS INDEXING IS AVAILABLE FOR THIS PATENT. The present invention relates to methods of controlling or reversing chronic rejection of allografts in a transplantation patient by administering leflunomide product alone, or in combination with one or more immunosuppressive agents selected from the group consisting of Cyclosporine A, FK506, rapamycin and corticosteroids. The invention also relates to methods of preventing or controlling acute and chronic rejection of xenografts in a transplantation patient by

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **75706-12-6**, Leflunomide

(leflunomide or A771726, alone or in immunosuppressant combination, to control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

administering leflunomide product alone, or in ${\color{blue}\mathtt{combination}}$

with one or more immunosuppressive agents selected from the group consisting of Cyclosporine A, FK506, rapamycin and corticosteroids.

IT 108605-62-5, A771726

(leflunomide or A771726, alone or in immunosuppressant combination, to control and reverse chronic allograft rejection and to prevent or control xenograft rejection)

L49 ANSWER 7 OF 15 USPATFULL

```
97:20542 USPATFULL
AN
ΤI
       Formulations for lipophilic compounds
TN
       Schwartz, Donna P., San Mateo, CA, United States
       Shawver, Laura K., San Francisco, CA, United States
PA
       Sugen, Inc., Redwood City, CA, United States (U.S. corporation)
PΙ
       US 5610173 19970311
       US 1995-429206 19950426 (8)
ΑI
       Continuation-in-part of Ser. No. US 1995-370574, filed on 6 Jan 1995
RLI
       which is a continuation-in-part of Ser. No. US 1994-179570, filed on 7
       Jan 1994
       Utility
DT
       Primary Examiner: Spivack, Phyllis G.
EXNAM
LREP
       Lyon & Lyon
       Number of Claims: 18
CLMN
       Exemplary Claim: 1
ECL
DRWN
       No Drawings
LN.CNT 653
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Pharmaceutical formulations containing a lipophilic compound
AB
       solubilized in ethanol and a surfactant are disclosed. The solubilized
       compound can then be further dissolved in a pharmaceutically acceptable
       aqueous solution to form a pharmaceutical formulation suitable
       for patient administration. Preferred lipophilic compounds are
       5-methylisoxazole-4-carboxylic acid-(4-trifluoromethyl)-auilide and
       N-(4-triflouromethylphenyl)-2-cyano-3-hydroxycrotonamide.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     75706-12-6, Leflunomide 108605-62-5
        (pharmaceutical formulations for lipophilic compds. comprising ethanol
        and surfactant)
L49 ANSWER 8 OF 15 USPATFULL
       96:113945 USPATFULL
AN
       5-methyl-isoxazole-4-carboxylic acid anilides and 2-hydroxyethylidene-
ΤI
       cyano acetic anilides for the treatment of ocular diseases
       Robertson, Stella M., Arlington, TX, United States
IN
       Lang, Laura S., Bedford, TX, United States
PA
       Alcon Laboratories, Inc., Fort Worth, TX, United States (U.S.
       corporation)
       US 5583150 19961210
ΡI
       US 1994-317276 19941004 (8)
ΑI
       Continuation of Ser. No. US 1992-835243, filed on 12 Feb 1992, now
RLI
       abandoned which is a continuation of Ser. No. US 1990-569671, filed on
       17 Aug 1990, now abandoned which is a continuation-in-part of Ser. No.
       US 1989-395860, filed on 18 Aug 1989, now abandoned
DT
       Utility
       Primary Examiner: Fay, Zohreh
EXNAM
       Yeager, Sally
LREP
       Number of Claims: 8
CLMN
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 252
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       The use of 5-methyl-isoxazole-4-carboxylic acid anilides and
AB
       2-hydroxyethylidene-cyano acetic acid anilides for treating ocular
       diseases with immune etiology is disclosed.
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 75706-12-6 108605-62-5

(ophthalmic pharmaceutical of, for treatment of ocular disease with immune etiol.)

```
L49 ANSWER 9 OF 15 USPATFULL
       96:58233 USPATFULL
AN
       Isoxazole-4-carboxamides and hydroxyalkylidenecyanoacetamides,
ТT
       pharmaceuticals containing these compounds and their use
       Bartlett, Robert R., Darmstadt, Germany, Federal Republic of
IN
       Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal
       Republic of
       Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic
PA
       of (non-U.S. corporation)
       US 5532259 19960702
ΡI
       US 1995-476278 19950607 (8)
ΑI
DCD
       20121116
       Division of Ser. No. US 1992-938048, filed on 16 Nov 1992, now patented,
RTT
       Pat. No. US 5494911
       DE 1990-4016178 19900518
PRAI
       DE 1990-4017020 19900526
       DE 1990-4017043 19900526
DT
       Utility
      Primary Examiner: McKane, Joseph K.
EXNAM
       Finnegan, Henderson, Farabow, Garrett & Dunner
LREP
       Number of Claims: 18
CLMN
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 1166
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Isoxazole-4-carboxamides and hydroxyalkylidenecyanoacetamides,
AB
       pharmaceuticals containing these compounds and their use
       Isoxazole-4-carboxamide derivatives and hydroxyalkylidene-cyanoacetamide
       derivatives are suitable for the treatment of carcinoses. These
       compounds can be prepared by known processes. Some of the compounds are
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novel and are additionally suitable for the treatment of rheumatic disorders.

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CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

```
75706-12-6P 108605-62-5P
```

(prepn. of, as neoplasm inhibitor and antirheumatic)

```
L49 ANSWER 10 OF 15 USPATFULL
       96:43693 USPATFULL
ΑN
       Method of treating hyperproliferative vascular disease
TΤ
       Morris, Randall E., Stanford, CA, United States
IN
       Bartlett, Robert R., Darmstadt, Germany, Federal Republic of
       Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic
PA
       of (non-U.S. corporation)
PI ·
       US 5519042 19960521
       US 1994-181116 19940113 (8)
ΑI
DT
       Utility
      Primary Examiner: Cintins, Marianne M.; Assistant Examiner: Weddington,
EXNAM
       Kevin E.
       Finnegan, Henderson, Farabow, Garrett & Dunner
LREP
       Number of Claims: 9
CLMN
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 409
```

AB A method of preventing or treating hyperproliferative vascular disease in a mammal consists of administering to a mammal an effective amount of carboxyamide compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 75706-12-6P 108605-62-5P

(treatment of hyperproliferative vascular disease with fluorophenylisoxazolecarbooxamide and flurorophenycyanocrotonamide derivs.)

L49 ANSWER 11 OF 15 USPATFULL

AN 96:27194 USPATFULL

TI Pharmaceutical for the treatment of skin disorders

IN Bartlett, Robert R., Darmstadt, Germany, Federal Republic of Weithmann, Klaus U., Hofheim, Germany, Federal Republic of Kurtz, Ellen S., Flemington, NJ, United States

PA Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation)
Hoechst-Roussel Pharmaceuticals, Inc., North Somerville, NJ, United

States (U.S. corporation)
PI US 5504084 19960402

AI US 1994-216332 19940323 (8)

RLI Continuation-in-part of Ser. No. US 1993-41223, filed on 31 Mar 1993, now abandoned

DT Utility

EXNAM Primary Examiner: Cintins, Marianne M.; Assistant Examiner: Weddington,

LREP Finnegan, Henderson, Farabow, Garrett & Dunner

CLMN Number of Claims: 16 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 414

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pharmaceutical for the treatment of skin disorders

A compound of the **formula** I or II ##STR1## and physiologically tolerable salts of compound of the **formula** II are suitable for treatment of psoriasis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 75706-12-6P

(tifluorophenylmethylisoxazolecarboxamides or cyanohydroxycrotonamide pharmaceuticals for treatment of skin disorders in humans)

IT 108605-62-5P

(tifluorophenylmethylisoxazolecarboxamides or cyanohydroxycrotonamide pharmaceuticals for treatment of skin disorders in humans)

L49 ANSWER 12 OF 15 USPATFULL

AN 96:16988 USPATFULL

TI Isoxazole-4-carboxamides and hydroxyalkylidenecyanoacetamides, pharmaceuticals containing these compounds and their use

IN Bartlett, Robert R., Darmstadt, Germany, Federal Republic of Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal Republic of

PA Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation)

PI US 5494911. 19960227

WO 9117748 19911128

AI US 1992-938048 19921116 (7)

```
WO 1990-EP1800 19901024
              19921116 PCT 371 date
              19921116 PCT 102(e) date
PRAI
       DE 1990-4016178 19900518
       DE 1990-4017020 19900526
       DE 1990-4017043 19900526
DT
       Utility
       Primary Examiner: McKane, Joseph K.
EXNAM
       Finnegan, Henderson, Farabow, Garrett & Dunner
LREP
       Number of Claims: 22
CLMN
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 1116
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Isoxazole-4-carboxamide derivatives and hydroxyalkylidene-cyanoacetamide
       derivatives are suitable for the treatment of carcinoses. These
       compounds can be prepared by known processes. Some of the compounds are
       novel and are additionally suitable for the treatment of rheumatic
       disorders.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     75706-12-6P 108605-62-5P
        (prepn. of, as neoplasm inhibitor and antirheumatic)
    ANSWER 13 OF 15 USPATFULL
L49
       95:92810 USPATFULL
AN
ΤI
       Medicament to combat autoimmune diseases
       Bartlett, Robert R., Darmstadt, Germany, Federal Republic of
TN
       Schleyerbach, Rudolph, Hofheim am Taunus, Germany, Federal Republic of
       Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal
       Republic of
       Hoechst Aktiengesellschaft, Frankfurt, Germany, Federal Republic of
PA
       (non-U.S. corporation)
       US 5459163 19951017
ΡI
       US 1993-119840 19930913 (8)
ΑI
       Division of Ser. No. US 1992-870327, filed on 17 Apr 1992, now patented,
RLI
       Pat. No. US 5268382 which is a continuation of Ser. No. US 1990-575603,
       filed on 31 Aug 1990, now abandoned which is a division of Ser. No. US
       1986-911328, filed on 25 Sep 1986, now patented, Pat. No. US 4965276
       DE 1985-3534440 19850927
PRAI
DΨ
       Utility
      Primary Examiner: Criares, Theodore J.
EXNAM
       Finnegan, Henderson, Farabow, Garrett & Dunner
LREP
CLMN
       Number of Claims: 1
       Exemplary Claim: 1
ECL
DRWN
       5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 353
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       A pharmaceutical composition for use in the treatment of
AB
       chronic Graft-versus-host diseases as well as autoimmune diseases, in
       particular for the treatment of systemic lupus erythematosus containing
       as an active ingredient at least one compound of the formulae
       1 or 2 ##STR1## the latter being present per se or in the form of a
       physiologically tolerable salt.
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The invention also relates to a dosage unit form of said pharmaceutical composition and a method of treating chronic Graft-versus host diseases as well as autoimmune diseases, in particular systemic lupus erythematosus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. 75706-12-6 108605-62-5 108605-62-5D, salts (graft-vs.-host and autoimmune diseases treatment with) ANSWER 14 OF 15 USPATFULL L49 AN 93:102794 USPATFULL Medicaments to combat autoimmune diseases, in particular systemic lupus ΤI ervthematosus IN Bartlett, Robert R., Darmstadt, Germany, Federal Republic of Schleyerbach, Rudolf, Hofheim am Taunus, Germany, Federal Republic of Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal Republic of PΑ Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation) PI US 5268382 19931207 US 1992-870327 19920417 (7) ΑI Continuation of Ser. No. US 1990-575603, filed on 31 Aug 1990, now RLI abandoned which is a division of Ser. No. US 1986-911328, filed on 25 Sep 1986, now patented, Pat. No. US 4965276 PRAI DE 1985-3534440 19850927 Utility DT Primary Examiner: Schenkman, Leonard EXNAM Finnegan, Henderson, Farabow, Garrett & Dunner LREP Number of Claims: 10 CLMN ECL Exemplary Claim: 1 5 Drawing Figure(s); 5 Drawing Page(s) DRWN LN.CNT 353 CAS INDEXING IS AVAILABLE FOR THIS PATENT. A pharmaceutical composition for use in the treatment of chronic Graft-versus-host diseases as well as autoimmune diseases, in particular for the treatment of systemic lupus erythematosus containing as an active ingredient at least one compound of the formulae 1 or 2 ##STR1## the latter being present per se or in the form of a physiologically tolerable salt. The invention also relates to a dosage unit form of said pharmaceutical composition and a method of treating chronic Graft-versus-host diseases as well as autoimmune diseases, in particular systemic lupus erythematosus. CAS INDEXING IS AVAILABLE FOR THIS PATENT. 75706-12-6 108605-62-5 108605-62-5D, salts (graft-vs.-host and autoimmune diseases treatment with) ANSWER 15 OF 15 USPATFULL L49 90:81803 USPATFULL AN ΤI Medicaments to combat chronic graft-versus-host diseases Bartlett, Robert R., Darmstadt, Germany, Federal Republic of IN Schleyerbach, Rudolf, Hofheim am Taunus, Germany, Federal Republic of Kammerer, Friedrich-Johannes, Hochheim am Main, Germany, Federal Republic of Hoechst Aktiengesellschaft, Frankfurt, Germany, Federal Republic of PA (non-U.S. corporation) ΡI US 4965276 19901023 ΑI US 1986-911328 19860925 (6) PRAI DE 1985-3534440 19850927

DT

Utility

EXNAM Primary Examiner: Schenkman, Leonard

d

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Finnegan, Henderson, Farabow, Garrett, and Dunner
LREP
       Number of Claims: 10
CLMN
ECL
       Exemplary Claim: 1
       5 Drawing Figure(s); 5 Drawing Page(s)
DRWN
LN.CNT 363
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       A pharmaceutical composition for use in the treatment of
AB
       chronic Graft-versus-host diseases as well as autoimmune diseases, in
       particular for the treatment of systemic lupus erythematosus containing
       as an active ingredient at least one compound of the formulae
       1 or 2 ##STR1## the latter being present per se or in the form of a
       physiologically tolerable salt.
       The invention also relates to a dosage unit form of said pharmaceutical
     composition and a method of treating chronic Graft-versus host
       diseases as well as autoimmune diseases, in particular systemic lupus
       erythematosus.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     75706-12-6 108605-62-5 108605-62-5D, salts
        (graft-vs.-host and autoimmune diseases treatment with)
=> d his 150-
     (FILE 'USPATFULL' ENTERED AT 11:36:35 ON 25 JUL 1999)
     FILE 'REGISTRY' ENTERED AT 11:36:49 ON 25 JUL 1999
     FILE 'USPATFULL' ENTERED AT 11:36:57 ON 25 JUL 1999
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                                162 TERMS
L50
                SET SMARTSELECT OFF
     FILE 'REGISTRY' ENTERED AT 11:36:59 ON 25 JUL 1999
            162 S L50
L51
              1 S L51 AND L14
L52
              1 S L51 AND L32
L53
=> d ide can 152
L52 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1999 ACS
     75706-12-6 REGISTRY
RN
     4-Isoxazolecarboxamide, 5-methyl-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA
CN
     INDEX NAME)
OTHER NAMES:
     HWA 486
CN
     Leflunomide
CN
CN
     SU 101
     SU 101 (pharmaceutical)
CN
     3D CONCORD
FS
     210165-51-8
DR
     C12 H9 F3 N2 O2
MF
CI
     COM
                  ADISINSIGHT, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
T.C.
     STN Files:
       BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CIN, CSCHEM, DDFU,
       DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*,
       MSDS-OHS, PHAR, PROMT, TOXLINE, TOXLIT, USAN, USPATFULL, VETU
         (*File contains numerically searchable property data)
     Other Sources:
                      WHO
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229 REFERENCES IN FILE CA (1967 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
229 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:29577

REFERENCE 2: 131:27618

REFERENCE 3: 131:27612

REFERENCE 4: 131:27611

REFERENCE 5: 131:13589

REFERENCE 6: 131:387

REFERENCE 7: 130:352088

REFERENCE 8: 130:346723

REFERENCE 9: 130:306209

REFERENCE 10: 130:280811

=> d ide can 153

L53 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1999 ACS

RN **108605-62-5** REGISTRY

CN 2-Butenamide, 2-cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Cyano-3-hydroxy-N-(4-trifluoromethylphenyl)crotonamide

CN A 77-1726

CN SU 20

CN Teriflunomide

FS 3D CONCORD

DR 210165-52-9

MF C12 H9 F3 N2 O2

CI COM

SR CA

LC STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, EMBASE, MEDLINE, TOXLIT, USPATFULL

79 REFERENCES IN FILE CA (1967 TO DATE)

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

79 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:39350

REFERENCE 2: 131:29577

REFERENCE 3: 131:27612

REFERENCE 4: 131:27611

REFERENCE 5: 131:27610

REFERENCE 6: 131:27609

REFERENCE 7: 131:27608

REFERENCE 8: 131:13589

REFERENCE 9: 130:280811

REFERENCE 10: 130:246540